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| APPLICATION NO. FILING DATE | | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|-----------------------------------|-----------------------|-------------|----------------------|-------------------------|-------------------------|--|
| 10/081,558 | 10/081,558 02/20/2002 | | Satoshi Seo | 07977-304001 | 1991 | |
| 26171 | 7590 | 06/28/2004 | EXAMINER | | INER | |
| FISH & R | | | SEFER, AHMED N | | | |
| 1425 K STREET, N.W. 11TH FLOOR | | | | ART UNIT | PAPER NUMBER | |
| WASHINGTON, DC 20005-3500 | | | | 2826 | | |
| | | | | DATE MAILED: 06/28/2004 | DATE MAILED: 06/28/2004 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. | Applicant(s) | | | | | |
|--|--|---|--|--|--|--|--|
| | 10/081,558 | SEO ET AL. | | | | | |
| Office Action Summary | Examiner | Art Unit | | | | | |
| • | | | | | | | |
| The MAILING DATE of this communication app | A. Sefer | 2826 | | | | | |
| Period for Reply | ears on the cover sheet with the c | orrespondence address | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | 36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE | ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133). | | | | | |
| Status | | | | | | | |
| 1)⊠ Responsive to communication(s) filed on 04 Ju | ine 2004. | | | | | | |
| ·— · · | action is non-final. | | | | | | |
| <i>;</i> | | | | | | | |
| closed in accordance with the practice under E | | | | | | | |
| Disposition of Claims | | | | | | | |
| | | | | | | | |
| | Claim(s) 1-58 is/are pending in the application. 4a) Of the above claim(s) 1,3-17,19-25,27-33,35-49 and 51-56 is/are withdrawn from consideration. | | | | | | |
| 5) Claim(s) is/are allowed. | _ | | | | | | |
| 6)⊠ Claim(s) <u>2,18,26,34,50,57 and 58</u> is/are rejected | / <u></u> | | | | | | |
| 7) Claim(s) is/are objected to. | | | | | | | |
| · | Claim(s) are subject to restriction and/or election requirement. | | | | | | |
| Application Papers | | | | | | | |
| _ | r | | | | | | |
| 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. | | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | | |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | | |
| , | | | | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage | | | | | | | |
| application from the International Bureau (PCT Rule 17.2(a)). | | | | | | | |
| * See the attached detailed Office action for a list of the certified copies not received. | | | | | | | |
| Attachmont(c) | | | | | | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) | | | | | | | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Da | ite | | | | | |
| 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date | 5) Notice of Informal P 6) Other: | atent Application (PTO-152) | | | | | |

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Embodiment 2 (claims 2, 18, 26, 34, 50, 57 and 58) in the reply filed on June 4, 2004 is acknowledged.

Specification

2. Claim 34 is objected to because of the following informalities: Line 5, the limitation "a fast mixed ..." appears to contain a typographical error. Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claim 2 is rejected under 35 U.S.C. 102(b) as being anticipated by Fujii et al. ("Fujii") (JP 3-190088).

Fujii discloses in fig. 2 a blue organic light emitting device comprising an organic compound film interposed between an anode 21 and a cathode 27, the organic compound film comprising: a hole transporting region 22 comprising a hole transporting material on the anode; a first mixed region 23 comprising the hole transporting material and a host material on the hole transporting region; a light emitting region 24 comprising the host material to which a blue light emitting material is added, on the first mixed region; a second mixed region 25 comprising the host material and an electron transporting material on the light emitting region; and an electron transporting region 26 comprising the electron transporting material on the second mixed region.

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Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 18 and 57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujii in view of Tang et al. ("Tang") USPN 6,384,529

Fujii discloses the device structure as recited in the claim, but does not specifically disclose a fluorescent member.

Tang discloses (see col. 6, lines 14-37 and col. 7, lines 16-25) a full-color active matrix (as in claim 57) display comprising a fluorescent member that is capable of absorbing blue light emitted from a blue organic emitting device and emitting green or red light.

Therefore, it would have been obvious to one skilled in the art the time the invention was made to incorporate Tang's teachings with Fujii's device since that would provide a high-resolution full-color organic displays as taught by Tang.

7. Claims 34 and 58 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujii in view of Tang et al. ("Tang") USPN 6,384,529

Fujii discloses in fig. 2 a blue organic light emitting device comprising an organic compound film interposed between an anode 21 and a cathode 27, the organic compound film comprising: a hole transporting region 22 comprising a hole transporting material on the anode; a first mixed region 23 comprising the hole transporting material and a host material on the hole transporting region; a light emitting region 24 comprising the host material to which a blue light

emitting material is added, on the first mixed region; a second mixed region 25 comprising the host material and an electron transporting material on the light emitting region; and an electron transporting region 26 comprising the electron transporting material on the second mixed region, but does not specifically disclose a fluorescent member.

Tang discloses (see col. 6, lines 14-37 and col. 7, lines 16-25) a full-color active matrix (as in claim 58) display comprising a fluorescent member that is capable of absorbing blue light emitted from a blue organic emitting device and emitting green or red light.

Therefore, it would have been obvious to one skilled in the art the time the invention was made to incorporate Tang's teachings with Fujii's device since that would provide a high-resolution full-color organic displays as taught by Tang.

As for claims 26 and 50, the prior art omits an electronic equipment selected from the group consisting of a portable/personal computer, video/digital camera and cellular phone. However, Examiner takes Official Notice that an electronic equipment comprising a full color device wherein said electronic equipment selected from the group consisting of a video camera or a digital camera is conventional and well known. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have employed any of the various electronic equipment since Examiner takes Official Notice that due to their low power consumption, full-color displays have become a necessary and indispensable structural element of an electronic equipment.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to A. Sefer whose telephone number is (571) 272-1921.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ANS June 17, 2004 NATHAN J. FLYNN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800